Translation



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PCT/JP2003/013035

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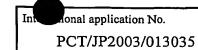
INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 151WOa-1	FOR FURTHER ACTION	See Form PCT/IPEA/416				
International application No. PCT/JP2003/013035	International filing date (day/mo					
International Patent Classification (IPC) or national classification and IPC A61B 5/044, G01R 13/00						
Applicant DAIN	NIPPON PHARMACEUTIO	CAL CO., LTD.				
This report is the international prelin Authority under Article 35 and trans	ninary examination report, estable mitted to the applicant according	ished by this International Preliminary Examining to Article 36.				
2. This REPORT consists of a total of sheets, including this cover sheet.						
	 This report is also accompanied by ANNEXES, comprising: a. (sent to the applicant and to the International Bureau) a total of sheets, as follows: 					
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains indications relating to the following items:						
Box No. I Basis of the report						
Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV Lack of unity of invention						
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
	Box No. VI Certain documents cited					
1 =	Box No. VII Certain defects in the international application					
Box No. VIII Certain obser	vations on the international appli	cation				
Date of submission of the demand	Date of	completion of this report				
08 January 2004 (08.0	1.2004)	17 May 2004 (17.05.2004)				
Name and mailing address of the IPEA/JP	Author	ized officer				
Facsimile No.		one No.				

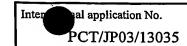




Box No.	I Basis	of the report
		e language, this report is based on the international application in the language in which it was filed, unless ed under this item.
		t is based on translations from the original language into the following language, unguage of a translation furnished for the purpose of:
	intern	national search (under Rules 12.3 and 23.1(b))
	public	cation of the international application (under Rule 12.4)
	intern	national preliminary examination (under Rules 55.2 and/or 55.3)
furnis	hed to the re re not annex	the elements of the international application, this report is based on (replacement sheets which have been receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and to this report):
		tional application as originally filed/furnished
	the descript pages	tion; , as originally filed/furnished
	pages*	received by this Authority on
	pages*	received by this Authority on
	the claims:	
	pages	, as originally filed/furnished
1	pages*	, as amended (together with any statement) under Article 19
	pages*	received by this Authority on
	pages*	received by this Authority on
	the drawing	žs:
	pages	, as originally filed/furnished
	pages*	received by this Authority on
	pages*	received by this Authority on
	a sequence	listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.	The amenda	ments have resulted in the cancellation of:
	三	laims, Nos.
	二	
	=	rawings, sheets/figs
		equence listing (specify): able(s) related to sequence listing (specify):
	any t	(-), totaled to boulderioo Haining (apecigy).
4.	made, since (Rule 70.2(
		lescription, pages
	=	laims, Nos.
		lrawings, sheets/figs
	=	equence listing (specify):
	any t	table(s) related to sequence listing (specify):
* If iten	n 4 applies, :	some or all of those sheets may be marked "superseded."

Box No. I	II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
The ques	tions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially e have not been examined in respect of:
	the entire international application.
\boxtimes	claims Nos
becaus	se:
\boxtimes	the said international application, or the said claim No
It	is equivalent to a mere presentation of information.
	•
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	the description, claims or drawings (indicate particular elements below) or said claims Nos.
	are so unclear that no meaningful opinion could be formed (specify):
\	
	the claims, or said claims Nos are so inadequately supported
	by the description that no meaningful opinion could be formed.
	no international search report has been established for said claims Nos. 23, 28, 30
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:
	the written form has not been furnished
	does not comply with the standard
	the computer readable form has not been furnished
	does not comply with the standard
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
	see Supplemental Box for further details.

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Novelty (N)	Claims	3-6, 20, 27	YE
	Claims	1, 2, 7-19, 21, 22, 24-26, 29	NO
Inventive step (IS)	Claim	6	YE
	Claims	1-5, 7-22, 24-27, 29	NO
Industrial applicability (IA)	Claims	1-22, 24-27, 29	, YE
	Claims		NO

2. Citations and explanations (Rule 70.7)

Document 1: JP, 5-154118, A (SHARP CORPORATION), June 22, 1993 (06.22. 93), Full text, all drawings (Family: none)

Document 2: JP, 61-41437, A (OMRON TATEISI ELECTRONICS CO.), February 27, 1986 (02.27. 86), Full text, all drawings (Family: none)

Claims 1-5, 7-19, 21, 22, 24-27, 29

Document 1 describes a portable electrocardiograph and control method therefor, wherein the method calculates the heartbeat after detection of the R wave center point of the event waveform that is electrocardiogram data, decides whether or not the event waveform deviates from the predetermined waveform display region, and the amplitude and baseline of the event waveform to be displayed when deviation is decided to have occurred are corrected so that the displayed waveform is accommodated in the waveform display region and then the waveform is displayed; this correction is performed by CPU control that calculates the wave height value Vp-p of the event waveform from one screen's worth of electrocardiograph data and decides whether or not the wave height value Vp-p is smaller than the height H of the event waveform display region, and if $Vp-p \le H$ it leaves it as is, and if Vp-p > H the wave height value of one screen's worth of electrocardiograph data is reduced to 1/2, and then the baseline is shifted so that the center level of the wave height value Vp-p corresponds to the center value of the event waveform display region.

The inventions of claims 1, 2, 7-19, 21, 22, 24-26, and 29 form part of the portable electrocardiograph and control method therefore described in document 1; therefore, they do not appear to be novel and involve an inventive step.

Also, constituting a device with a computer and performing predetermined data processing using a plurality of storage regions when performing data processing is well-known and commonly practiced art; therefore, the inventions of claims 3-5 and 27 could be easily conceived by a person skilled in the art based on document 1.

Claim 6

Not correcting the graph display position of data in the output region when no determination is made of target cycle is not described in document 1 or 2; nor is this obvious to a person skilled in the art.

Claim 20

Document 2 describes displaying a mark on a QRS top location of an electrocardiograph waveform; therefore, employing this mark display technique in what is described in document 1 could be easily conceived by a person skilled in the art.